PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below NEC04P210A International filing date (day/month/year) Priority date (day/month/year) International application No. 19.12.2003 PCT/JP2004/018009 03.12.2004 International Patent Classification (IPC) or both national classification and IPC Applicant NEC CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application Box No. VII Certain observations on the international application Box No. VIII **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP

Telephone No.

Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018009

Box	No. I	Basis of this opinion	
1.	With filed,	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.	as
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under	ır
	-	Rule 12.3 and 23.1(b)).	
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimention, this opinion has been established on the basis of:	cd
	a.	type of material	
		a sequence listing	
		table(s) related to the sequence listing	
	b.	format of material	
		in written format	
		in computer readable form	:
	c.	time of filing/furnishing	
		contained in the international application as filed.	
	•	filed together with the international application in computer readable form.	
		furnished subsequently to this Authority for the purposes of search.	
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application filed or does not go beyond the application as filed, as appropriate, were furnished.	or as
4.	Add	itional comments:	
1			

WRITTEN OPINION OF THE . INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018009

Box	No. V Reasoned statemen citations and expla	Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (N)	Claims			YES
		Claims	1-7	•	NO
	Inventive step (IS)	Claims			YES
		Claims	1-7		NO
	Industrial applicability (IA)	Claims	1-7		YES
	•	Claims			NO
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2. Citations and explanations:

Document 1: JP, 2003-192925, A (Sony Corporation), 9 July, 2003 (09.07.03), the claims, paragraph [0010], [0013], [0021], [0024], [0027], [0035]-[0047] and the Example

The subject matters of claims 1-7 do not appear to be novel or to involve an inventive step, since they are described in document 1 cited in the ISR.

Document 1 describes a fire-retardant thermoplastic resin composition produced by mixing, as a fire retardant, alkali metal hydrate in a plant-derived biodegradable resin such as polylactic acid. Document 1 further describes that, in order to improve the preservation stability, the content of impurities including an alkali metal substance (e.g., Na_2O or the like when the alkali metal hydrate is aluminum hydroxide) is reduced and the purity of the alkali metal hydrate is set to be equal to or higher than 99.5%. That is, in the invention described in the cited document 1, the total content of the impurities including the alkali metal substance is equal to or lower than 0.5%, and the lower limit of the total content is not limited to a particular value.

Meanwhile, in the example of the present application, when the alkali metal hydrate is aluminum hydroxide, the content of the alkali metal substance as an impurity represents the total amount of Na_2O . Further, there is no mention on other alkali metal substances than Na_2O in other description in the specification of the present application.

Therefore, it is highly possible that the subject matters of claims 1-7 and the invention described in the cited document 1 overlap each other in terms of the content of the alkali metal substance in the alkali metal hydrate. Thus, no significant difference is recognized between the two.

Furthermore, the subject matters of claims 1-7 and the invention described in the cited document 1 are the same in their approach in that the impurities such as the alkali metal substance in the alkali metal hydrate are removed to improve the preservation stability (which is naturally considered to include hydrolysis resistance of polymer). Thus, even if there is s difference between the two, it is not particularly difficult to set the content of the alkali metal substance to be equal to or lower than 0.2 mass % in the invention described in the cited document 1. Further, in view of this, the subject matters of claims 1-7 are not considered to have a special effect.

Cited document 1 describes or suggests the addition of a compound having an aromatic ring as a compound for supporting the fire retardancy, a crystal nucleus agent, a high-strength fiber or the like.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018009

	published documents (Rule 43bis.1 and	70.10)		
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim (day/month/year)
JF	2004-307528 A [E, X]	04.11.2004	02.04.2003	
JP	2004-263180 A [E, X]	24.09.2004	12.02.2004	12.02.2003
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